	CERTIFICATE OF MAILING 526 REC'LT CT/PTO 13 JUL 2000			
I hereby certify that this cor Assistant Commissioner for	respondence is being deposited v Patents, Washington, D.C. 2023	with the United States Postal Service	e as first class i	mail in an envelope addressed to
Typed or Printed Name	Mathew Otts /9 # 1			
Signature	Martine	22	Date	July 7, 2000
REQUEST FOR CORRECTED FULING RECEIPT		Attorney Docket	GRUE-003	
		First Named	Bujard, et al.	
		Application Number	09/269,874	
	JUL 1 3 2000 (6)	Int'l Filing Date	October 2, 1997	
Address to:		Group Art Unit	(1641)	
Assistant Commissione		Examiner Name	MA	
Washington, D.C. 2023	Title Recombinant Process For Preparing a Co			or Preparing a Complete
	Sto V	Malaria Antigo	en GP190	/MSPI (as amended)

A filing receipt for the above identified patent application has been issued by the U.S. Patent and Trademark Office (copy attached) and has been found to contain the following error(s):

(1) The title reads "Recombinants Process For Preparing a Complete Malaria Antigen GP190/MSPI", but should read --Recombinant Process For Preparing a Complete Malaria Antigen GP190/MSPI--.

It is believed that the error was made by the U.S. Patent and Trademark Office since the first page of the specification indicates that the title is "Recombinant Process For Preparing a Complete Malaria Antigen GP190/MSPI". Copies of all of the above documents are attached.

No fee is believed due in connection with this request. However, if for any reason a fee is found to be necessary, the Commissioner is authorized to charge such fee to Deposit Account No. 50-0815.

By:

Respectfully submitted, BOZICEVIC, FIELD & FRANCIS LLP

Date: July 7, 2000

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Address: ASSISTANT SECRETARY AND

UE-003

COMMISSIONER OF PATENT AND TRADEMARKS

Washington, D.C. 20231

TOT IND CLAIMS **DRAWINGS** FIL FEE REC'D ATTY.DOCKET.NO FILING DATE GRP ART UNIT APPLICATION NUMBER CLAIMS 1 1556 402162000200 16 09/269,874 08/02/1999 1641

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Date Mailed: 05/04/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "N tice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

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RECEIVED

MAY 0 8 2000

Morrison & Foerster, LLP Palo Alto

C ntinuing Data as Claimed by Applicant

THIS APPLICATION IS A 371 OF PCT/EP97/05441 10/02/1997

Foreign Applications

GERMANY 196 40 817.2 10/02/1996

** SMALL ENTITY **

Title

(Title) 6/22/2000

RECOMBINANT PROCESS FOR PREPARING A COMPLETE MALARIA ANTIGEN, GP190/MSP1

Preliminary Class

424

Data entry by : BROWN, MICHAEL

Team: 1600

Date: 05/04/2000

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Recombinant process for preparing a complete malaria antigen, gp190/MSP1

The invention concerns a recombinant manufacturing process for the complete malaria antigen gp190/MSP1, as well as separate naturally-occurring domains and parts of the same, by expression of a synthetic DNA sequence. The invention concerns in addition the DNA sequences produced by the process and the host organisms used for the expression of the DNA sequences. In addition the invention concerns the use of the complete malaria antigen as well as parts thereof as a vaccine for immunization against malaria.

Finally the invention under consideration concerns a stabilization process for AT-rich genes, as well as stabilized genes which are characterized by a reduced AT content.

Malaria is one of the most significant infectious diseases in the world. According to WHO reports, in 1990 40% of the world population in 99 countries was exposed to the risk of malaria. At the same time its distribution is enormously on the increase. This may be ascribed above all to intensive development of resistance in the parasites causing malaria, promoted by the recommendation and use as prophylactics of the drugs intended for treatment. Besides the search for new and effective chemotherapeutic agents hope is nowadays directed towards the development of vaccines, since people in areas of the world where malaria is epidemic do manage to develop some kinds of immunity. As well as a natural resistance to malaria, such as that found in heterozygous carriers of the sickle-cell gene and people with thalassaemia and glucose-6-phosphate dehydrogenase deficiency, in the course of malarial infection in humans immune mechanisms can be stimulated which express themselves in a heightened capacity for resistance to the Plasmodia. Consequently the course of the disease in populations exposed to severe epidemics is generally less threatening than in persons exposed to the infection less frequently or for the first time.

The main problem in the development of a vaccine is the identification of an antigen which can induce protective immunity, since there is no easily accessible well-defined animal model available for the four parasites affecting man. The organism causing malaria belongs to the Plasmodium group, of which infection with one of the four parasites Plasmodium vivax,